

FIG. 1A

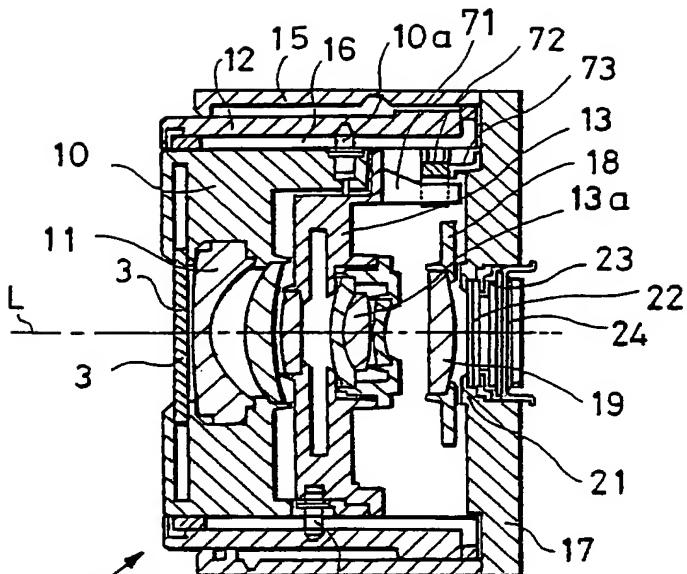


FIG. 1B

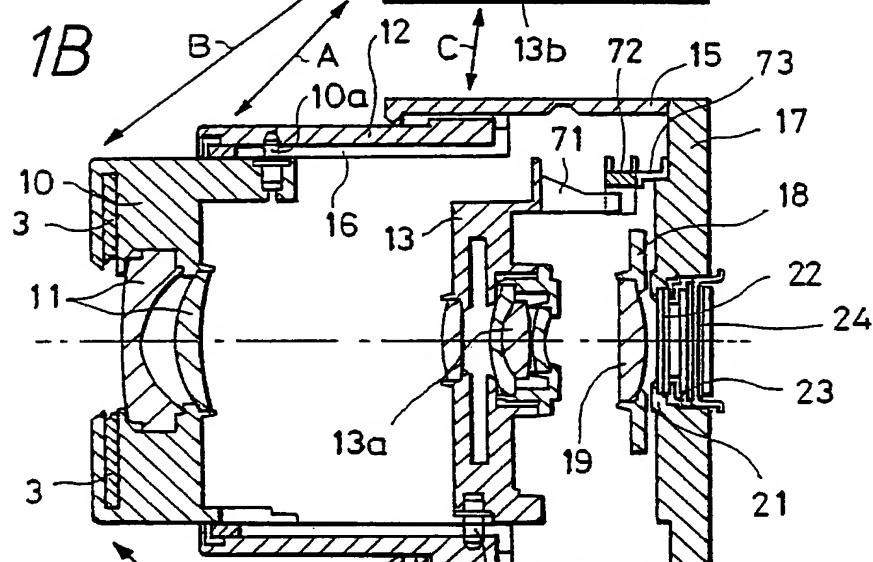


FIG. 1C

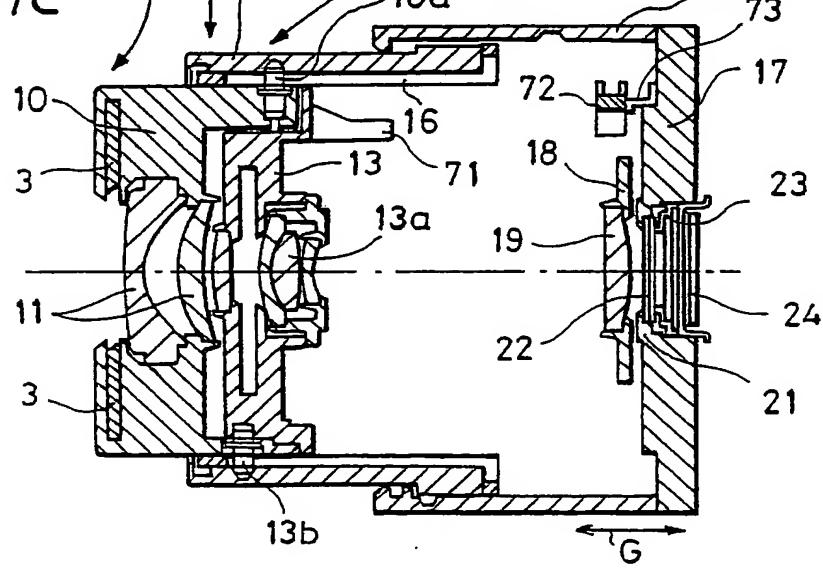


FIG. 2

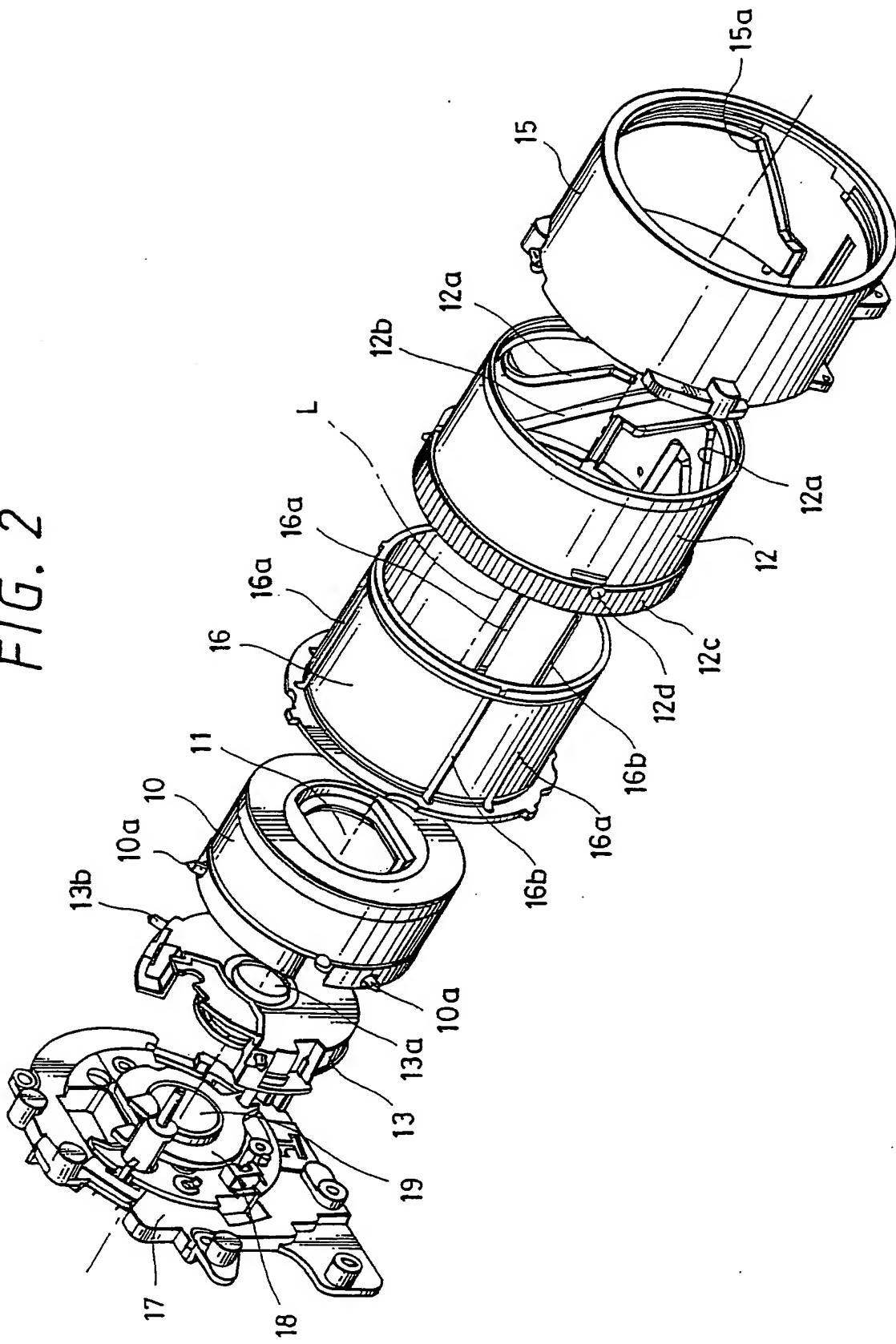


FIG. 3

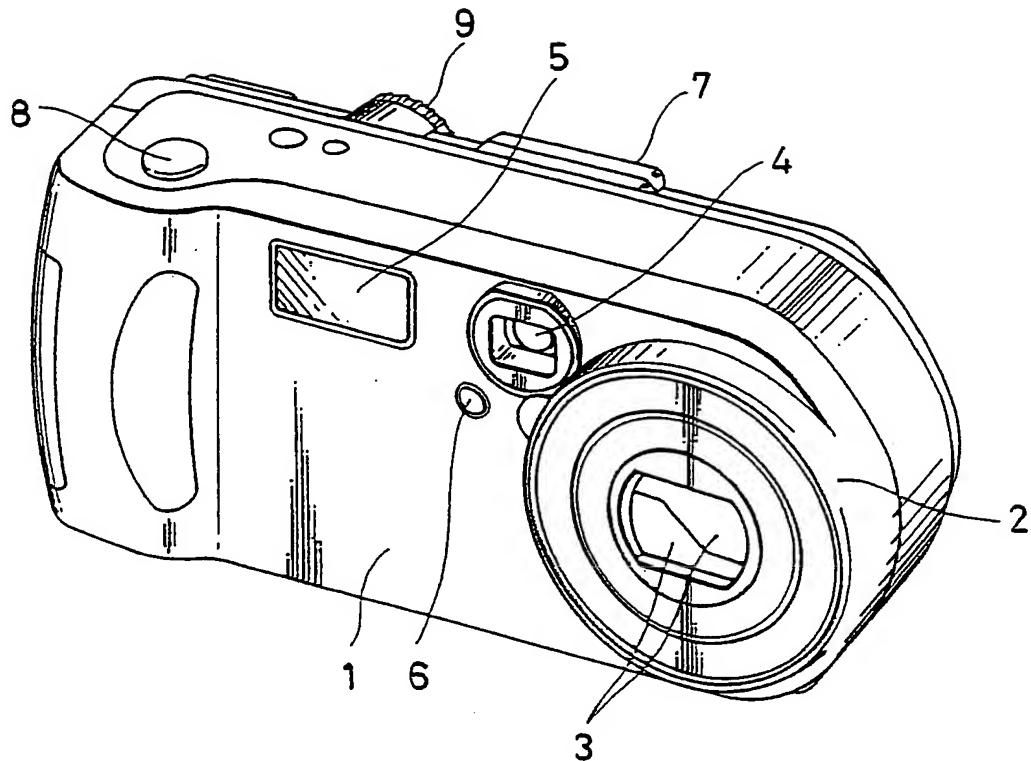


FIG. 4

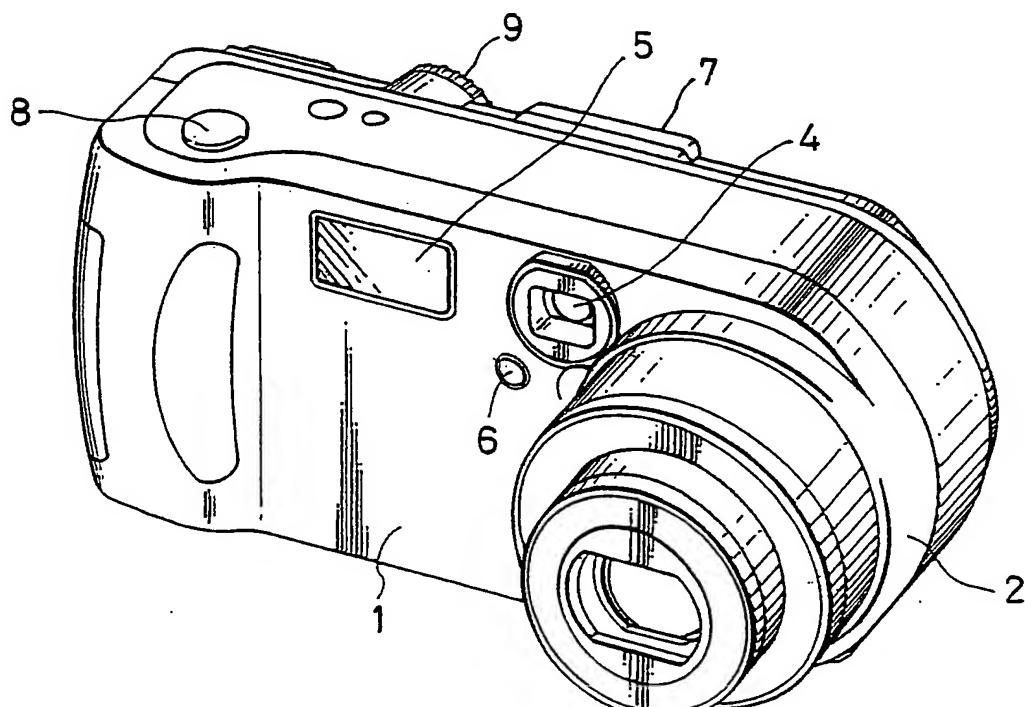


FIG. 5A

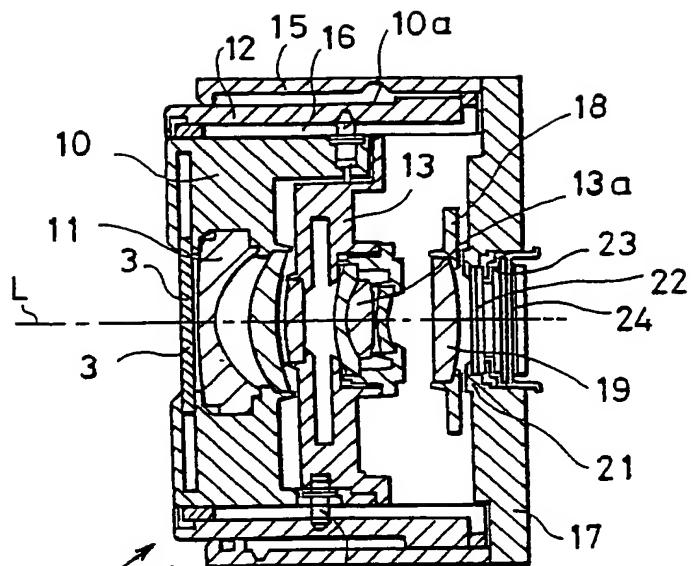


FIG. 5B

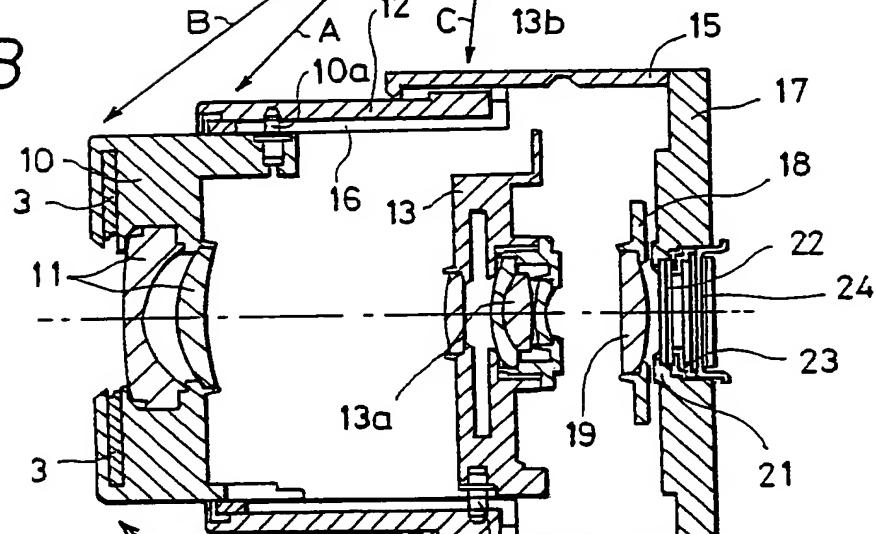
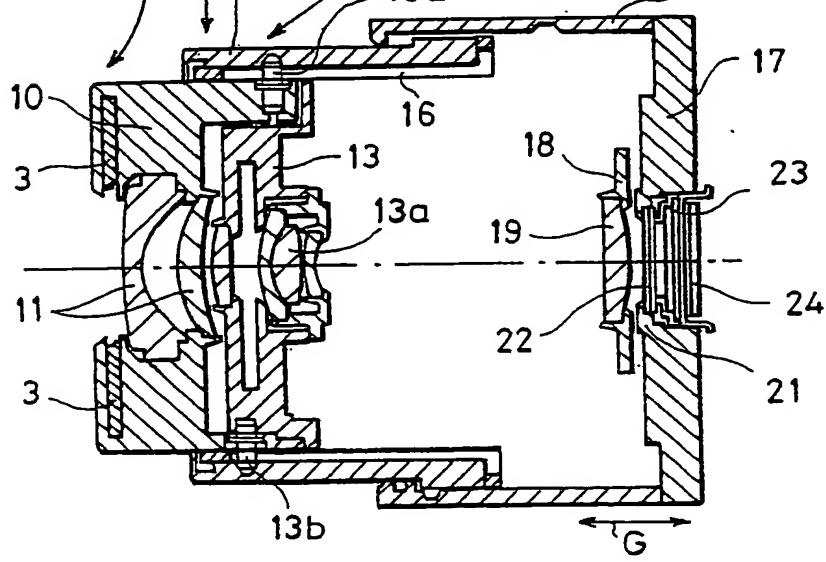


FIG. 5C



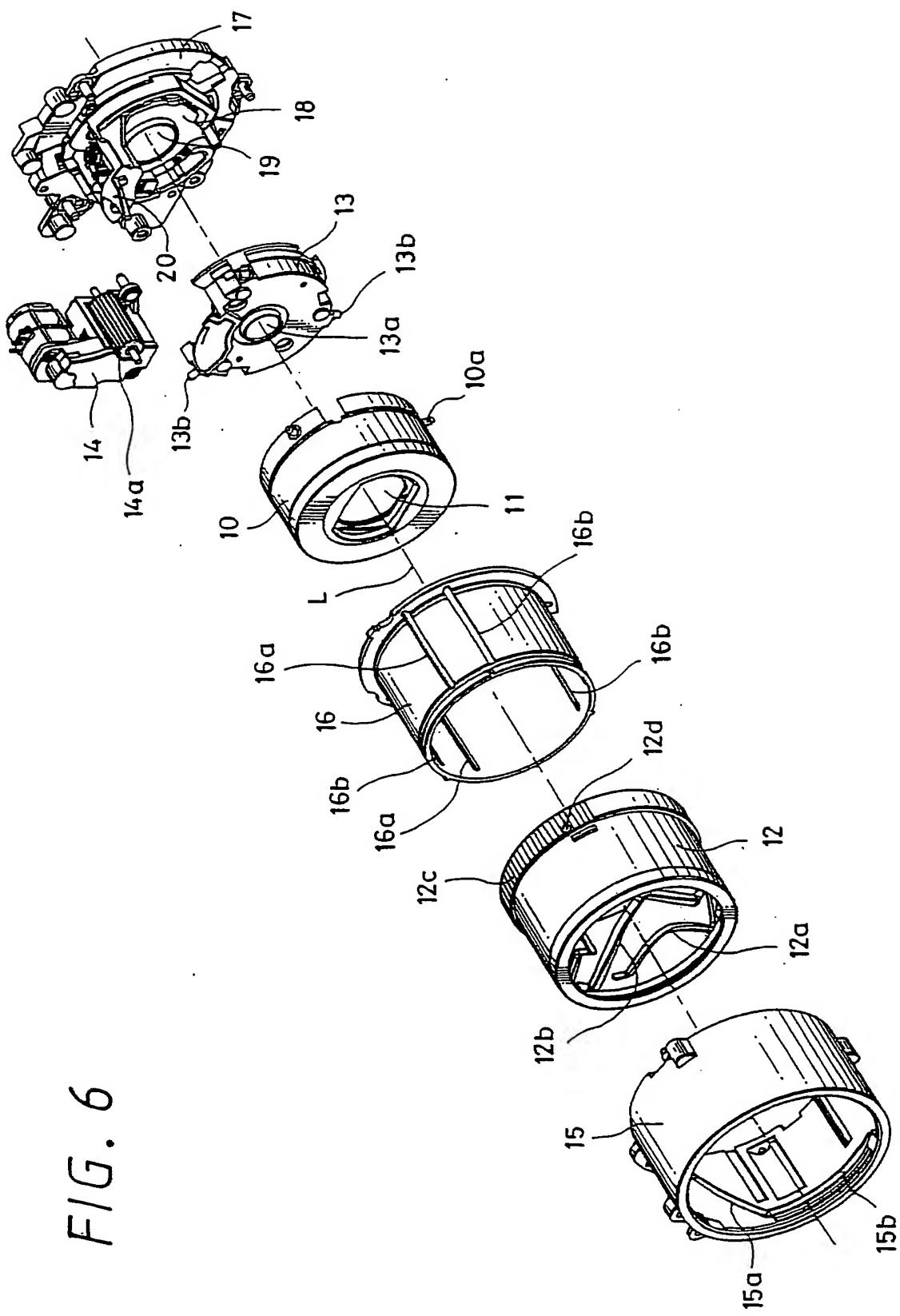


FIG. 6

FIG. 7

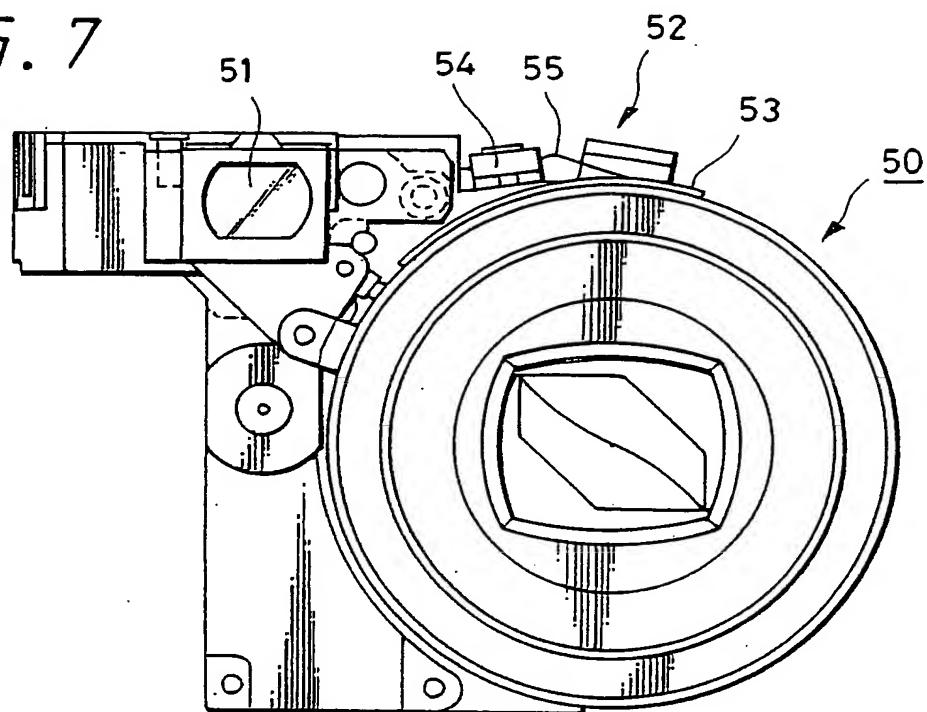
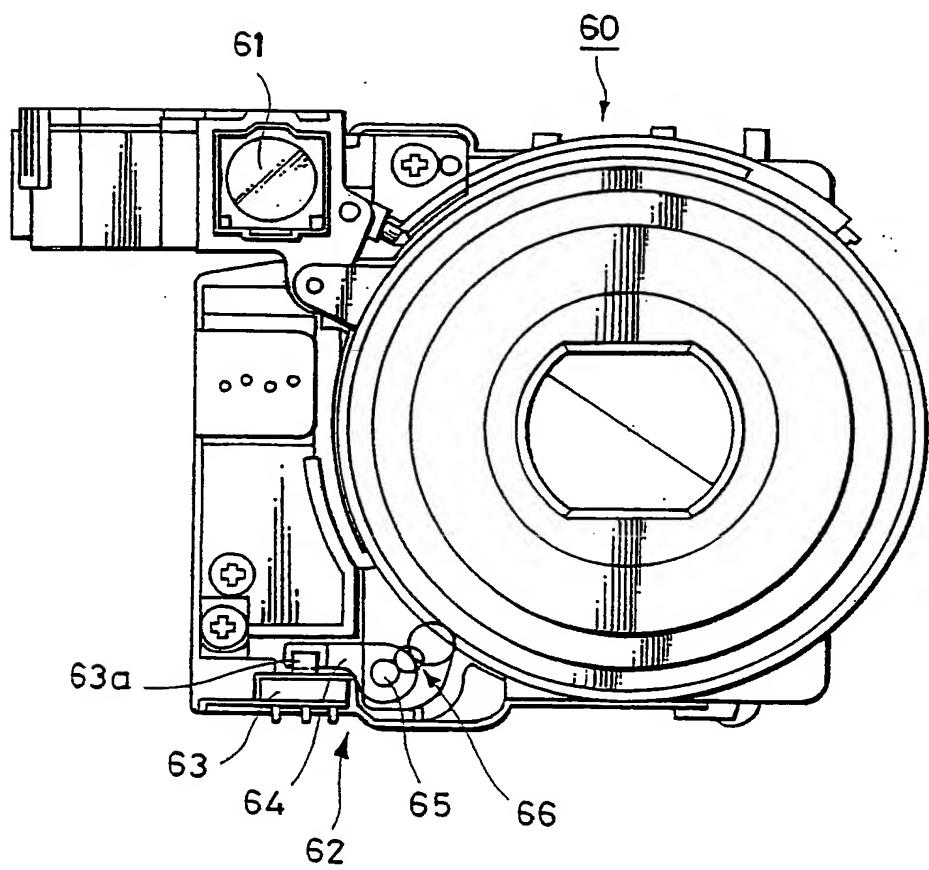


FIG. 8



## DESCRIPTION OF REFERENCE SYMBOLS

10 ... FIRST GROUP LENS FRAME  
10a ... CAM PIN  
12 ... CAM RING  
12a, 12b...CAM GROOVE  
12c ... GEAR PORTION  
12d ... CAM PIN  
13 ... SECOND GROUP LENS FRAME  
13b ... CAM PIN  
15 ... FIXED RING  
16 ... STRAIGHT-FORWARD GUIDE RING  
16a, 16b...GUIDE GROOVE  
17 ... REAR BARREL  
18 ... THIRD GROUP LENS FRAME  
22 ... OPTICAL FILTER  
24 ... SOLID-STATE IMAGE-PICKUP DEVICE (IMAGE-PICKUP  
MEANS)  
71 ... PROJECTION  
72 ... PHOTO-SENSOR